



PI McJlade JC, Loreto MP;  
 XX  
 DR MPI: 2002-566564/60.  
 DR P-PSDB; AA015457.  
 XX  
 PT New isolated modulator of antigen receptor signaling protein or its  
 PT fragment, useful for treating malignant disorders such as myeloid  
 XX malignancies, autoimmune disorders and myeloproliferative disorders -  
 PS Claim 12; Page 75; 110pp; English.

XX The invention comprises the amino acid and coding sequences of modulator  
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a  
 CC putative tumour suppressor gene and exhibits structural and sequence  
 CC similarity to the Src-like adaptor protein (SLAP). The MARS DNA and  
 CC protein sequences of the invention are useful for the treatment of  
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune  
 CC disorders, immunosuppression, myeloproliferative disorders and  
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.  
 CC breast cancer). The present cDNA sequence encodes a human MARS protein.

XX Sequence 786 BP; 162 A; 234 C; 231 G; 159 T; 0 other;

Query Match 100.0%; Score 783; DB 24; Length 786;  
 Best Local Similarity 100.0%; Pred. No. 7.2e-197;  
 Matches 783; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAGAGTGTGCGCCAGAGAAATCTCTGCAAGCCCAAGCTTGAATTCCTGTGC 60  
 DB 1 ATGGAGAGTGTGCGCCAGAGAAATCTCTGCAAGCCCAAGCTTGAATTCCTGTGC 60  
 QY 61 CAAAGCCAGAGAGCTGTGACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
 DB 61 CAAAGCCAGAGAGCTGTGACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
 QY 121 GGCAGTTTCCCGGAG 180  
 DB 121 GGCAGTTTCCCGGAG 180  
 QY 181 ATGCTCTGAG 240  
 DB 181 ATGCTCTGAG 240  
 QY 241 AACATCCCAAG 300  
 DB 241 AACATCCCAAG 300  
 QY 301 AAGGAGAAAG 360  
 DB 301 AAGGAGAAAG 360  
 QY 361 CGGAG 420  
 DB 361 CGGAG 420  
 QY 421 TCTTGGAG 480  
 DB 421 TCTTGGAG 480  
 QY 481 TCACCGAG 540  
 DB 481 TCACCGAG 540  
 QY 541 GATGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
 DB 541 GATGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
 QY 601 GGCAGAGAT 660  
 DB 601 GGCAGAGAT 660  
 QY 661 GACAGCTCCCTCCTGTTTCTGAAGCTGCCAGAGGAGAGAGAGAGAGAGAGAGAGAG 720  
 DB 661 GACAGCTCCCTCCTGTTTCTGAAGCTGCCAGAGGAGAGAGAGAGAGAGAGAGAGAG 720

DB 661 GACAGCTCCCTCCTGTTTCTGAAGCTGCCAGAGGAGAGAGAGAGAGAGAGAGAG 720  
 QY 721 CTCGGAGAGTCCCTCCTGCTTCTGATCATGAGCTGAGTGTCTTTGGATGAT 780  
 DB 721 CTCGGAGAGTCCCTCCTGCTTCTGATCATGAGCTGAGTGTCTTTGGATGAT 780  
 QY 781 GCC 783  
 DB 781 GCC 783

# RESULT 2

ABK61465  
 ID ABK61465 standard; cDNA; 1183 BP.

ABK61465;

18-JUN-2002 (first entry)

Human cDNA encoding protein NOV13.

XX Human; Gene; ss; NOVX; gene therapy; cardiomyopathy; atherosclerosis;  
 KW cell signal processing disorder; metabolic pathway modulation disorder;  
 KW diabetes; cancer; adenocarcinoma; lymphoma; prostate cancer;  
 KW uterus cancer; immune response; graft-versus-host disease;  
 KW acquired immunodeficiency syndrome; AIDS; asthma; Crohn's disease;  
 KW hypertension; congenital heart defects; multiple sclerosis; inflammation;  
 KW Albritght hereditary osteodystrophy.

XX Homo sapiens.

XX W0200216599-A2.

XX 28-FEB-2002.

XX 27-AUG-2001; 2001WO-US26510.

XX 25-AUG-2000; 2000US-228191P.

XX 08-FEB-2001; 2001US-267300P.

XX 20-FEB-2001; 2001US-269961P.

XX 20-MAR-2001; 2001US-277337P.

XX (CURA-) CURAGEN CORP.

XX (CORT-) COR THERAPEUTICS INC.

XX Burgess CE, Conley PB, Grose WM, Hart M, Kekuda R, Shinkets RA;

XX Spytek KA, Szekeres ES, Tomlinson JE, Topper JN, Yang R;

XX MPI: 2002-280937/32.

XX P-PSDB; AA091308.

XX Claim 1; Page 98; 263pp; English.

XX The invention relates to an isolated polypeptide (NOVX) a mature  
 CC form of NOVX, a NOVX variant (differing by no more than 15%), the  
 CC nucleotide encoding NOVX (or its complement, fragment or variant)  
 CC NOVX is NOV1-14, 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic  
 CC acid encoding it and antibody against it, are useful for treating or  
 CC preventing (e.g. by gene therapy) a NOVX-associated disorder in humans,  
 CC e.g. cardiomyopathy, atherosclerosis, a disorder related to cell signal  
 CC processing and metabolic pathway modulation, diabetes or cancers. The  
 CC NOVX polypeptide and nucleic acids are also useful for determining the  
 CC presence of predisposition to the diseases. The NOVX nucleic acid and  
 CC polypeptide are especially useful in therapeutic or prophylactic  
 CC applications for disorders associated with aberrant NOVX expression or  
 CC activity, e.g. cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or  
 CC uterus cancer), immune response, graft-versus-host disease, acquired  
 CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,  
 CC congenital heart defects, multiple sclerosis, inflammation or Albritght  
 CC hereditary osteodystrophy and many other diseases listed in the

CC specification. The DNA encoding the protein is useful in gene therapy  
 CC for treating the conditions. This is also useful in detection assays,  
 CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or  
 CC for developing a powerful assay system for functional analysis of  
 CC various human disorders, as well as in diagnostic applications. The  
 CC present sequence encodes a NOVX protein.

XX Sequence 1183 BP; 251 A; 359 C; 333 G; 240 T; 0 other;

Query Match 99.8%; Score 781.4; DB 24; Length 1183;  
 Best Local Similarity 99.9%; Pred. No. 2.2e-196;  
 Matches 782; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGGAAGTCTCCGACGAGAAAGAAATCTCTGCCAACCCCAAGCTTGAGTTCCTGTC 60  
 DB 398 ATGGGAAGTCTCCGACGAGAAAGAAATCTCTGCCAACCCCAAGCTTGAGTTCCTGTC 457  
 QY 61 CAAGGCCAGGACCTGTGACCAATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
 DB 458 CAAGGCCAGGACCTGTGACCAATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 517  
 QY 121 GCGAGTTTCCGCGAGGTGGCGCCGCGGAGCTGTGCTGAGACTCGGGAGGCAATTAGC 180  
 DB 518 GCGAGTTTCCGCGAGGTGGCGCCGCGGAGCTGTGCTGAGACTCGGGAGGCAATTAGC 577  
 QY 181 ATGCTCTGAGAGATGAT 240  
 DB 578 ATGCTCTGAGAGATGAT 637  
 QY 241 AACATCCCAAGGCTTCACGTGGCCAAAGTCTCCCAATGGGTGCTGATAGAGAGCTGAGC 300  
 DB 638 AACATCCCAAGGCTTCACGTGGCCAAAGTCTCCCAATGGGTGCTGATAGAGAGCTGAGC 697  
 QY 301 AGGGAAGAAAG 360  
 DB 698 AGGGAAGAAAG 757  
 QY 361 CGGAGAGCCAGACCCAG 420  
 DB 758 CGGAGAGCCAGACCCAG 817  
 QY 421 TCTGTGGAACGGATCAGACCTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
 DB 818 TCTGTGGAACGGATCAGACCTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 877  
 QY 481 TCACCGGCTTACCTTCCCTCCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540  
 DB 878 TCACCGGCTTACCTTCCCTCCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 937  
 QY 541 GATGACATCTGCTGCTACTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
 DB 938 GATGACATCTGCTGCTACTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 997  
 QY 601 GGCAGAGATATACCTTACCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660  
 DB 998 GGCAGAGATATACCTTACCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1057  
 QY 661 GACAGATCTCTCTGTTTCTGAAAGTGCACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720  
 DB 1058 GACAGATCTCTCTGTTTCTGAAAGTGCACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1117  
 QY 721 CTCGGGAGATCTCTGCTTCAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780  
 DB 1118 CTCGGGAGATCTCTGCTTCAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1177  
 QY 781 GCC 783  
 DB 1178 GCC 1180

RESULT 3  
 AAC77202  
 ID AAC77202 standard; cDNA; 837 BP.

XX AAC77202;  
 XX 08-FEB-2001 (first entry)  
 DE Human ORFX ORF2757 polynucleotide sequence SEQ ID NO:5513.

Human: open reading frame; ORFX; detection; cytosolic; hepatotropic;  
 KW vulnary; antiparkinsonian; neurotropic; neuroprotective;  
 KW anticonvulsant; osteopathic; antidiabetic; antidiabetic;  
 KW immunosuppressant; thrombolytic; coagulant; vasodilator; antidiabetic;  
 KW hypotensive; dermatological; immunosuppressive; antidiabetic;  
 KW antiviral; antibacterial; antifungal; antineoplastic; antidiabetic;  
 KW antineoplastic; gene therapy; cancer; proliferative disorder; hypertension;  
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;  
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;  
 KW cholesterol ester storage; systemic lupus erythematosus; infection;  
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;  
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;  
 KW bone damage; cartilage damage; antineoplastic disease; coagulation;  
 KW thrombosis; contraceptive; ss.

OS Homo sapiens.  
 PN W0200058473-A2.  
 PD 05-OCT-2000.  
 XX 31-MAR-2000; 2000MO-US08621.  
 PF 31-MAR-1999; 99US-0127607.  
 PR 02-APR-1999; 99US-0127636.  
 PR 05-APR-1999; 99US-0127728.  
 PR 30-MAR-2000; 2000US-0540763.  
 XX (CURA-) CURAGEN CORP.

PI Shimkova RA, Leach M;  
 XX WPI; 2000-602362/57.  
 DR P-PSDB; ABB42993.  
 XX

PT Novel nucleic acid and peptides derived from open reading frame X,  
 PT useful for treating e.g. cancers, proliferative disorders,  
 PT neurodegenerative disorders and cardiovascular disease -  
 PS Claim 5; Page 4692-4693; 5507pp; English.

XX AAC7446 to AAC77606 encode the proteins given in ABB40237 to ABB43397,  
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX  
 CC sequences have activities such as: cytosolic; hepatotropic; vulnary;  
 CC antiparkinsonian; neurotropic; neuroprotective;  
 CC osteopathic; anticonvulsant; antidiabetic; immunosuppressant;  
 CC immunosuppressant; cardiant; thrombolytic; coagulant; vasodilator;  
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;  
 CC antiinflammatory; antibacterial; antiviral; antifungal; antineoplastic;  
 CC antidiabetic; antineoplastic. The sequences can be used for determining  
 CC the presence of or predisposition to, or preventing or treating  
 CC pathological conditions associated with an ORFX-associated disorder. The  
 CC nucleic acids can be used to express ORFX proteins in gene therapy  
 CC vectors. The proteins and nucleic acids may be used to treat cancers,  
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,  
 CC graft vs host disease, cardiovascular disease, diabetes mellitus,  
 CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus  
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,  
 CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,  
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,  
 CC nocturnal haemoglobinuria, antineoplastic disease; to enhance  
 CC coagulation; to inhibit thrombosis; and as a contraceptive.

XX Sequence 837 BP; 176 A; 254 C; 245 G; 160 T; 2 other;  
 Query Match 94.4%; Score 738.8; DB 21; Length 837;

Best Local Similarity 99.7%; Pred. No. 3.4e-185;  
Matches 740; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 42 AAGCTTGAAGTCTCTCTGTCAGAGGCGAGGACCTGTGACATGGAGAGGAGAGAGCA 101  
DB 3 AAGCTTGAAGTCTCTCTGTCAGAGGCGAGGACCTGTGACATGGAGAGGAGAGCA 62  
QY 102 GGCACAGCCGTGGCCCTGAGCAAGTTCCTGAGAGGAGGAGGAGGAGGAGGAGGAG 161  
DB 63 GGCACAGCCGTGGCCCTGAGCAAGTTCCTGAGAGGAGGAGGAGGAGGAGGAGGAG 122  
QY 162 ACTGGGGAGGACCATGGACATGCTCTGAGAGTGGAGATGAGATGAGATGAGATGAG 221  
DB 123 ACTGGGGAGGACCATGGACATGCTCTGAGAGTGGAGATGAGATGAGATGAGATGAG 182  
QY 222 AGTCTCAGGAGAGATATACATCCCAAGCTGCAAGTGGCCAAAGTCTCCCATGGGTG 281  
DB 183 AGTCTCAGGAGAGATATACATCCCAAGCTGCAAGTGGCCAAAGTCTCCCATGGGTG 242  
QY 282 GCTGTATGAGGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 341  
DB 243 GCTGTATGAGGCGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 302  
QY 342 TGAAGGGGCGCTTCTCTATCCGAGAGCCAGACAGAGAGAGGCTTTATCTTGTCACT 401  
DB 303 TGAAGGGGCGCTTCTCTATCCGAGAGCCAGACAGAGAGAGGCTTTATCTTGTCACT 362  
QY 402 CCGGCTCAGCGCGCTGATCCCTGAGGAGCCGAGATCAGACATCAGATCAGATCAG 461  
DB 363 CCGGCTCAGCGCGCTGATCCCTGAGGAGCCGAGATCAGACATCAGATCAGATCAG 422  
QY 462 CAATGCTGCTGTATCATCTTCAAGGCGCTTCACTTCCCTCACTCAGAGGCGCTGTGGA 521  
DB 423 CAATGCTGCTGTATCATCTTCAAGGCGCTTCACTTCCCTCACTCAGAGGCGCTGTGGA 482  
QY 522 CCAATTAATCTGAGAGCTGAGGAGATGATCATCTGCTGCTCACTCAAGAGAGCCGTGTGCA 581  
DB 483 CCAATTAATCTGAGAGCTGAGGAGATGATCATCTGCTGCTCACTCAAGAGAGCCGTGTGCA 542  
QY 582 GAGGAGCTGGCCGCTCTCTGAGGAGATATACCTCACTGATGATGAGAGAGAGC 641  
DB 543 GAGGAGCTGGCCGCTCTCTGAGGAGATATACCTCACTGATGATGAGAGAGAGC 602  
QY 642 ACTCAATCGAAGAGAGCTGGAAGCTCCCTCTGTTTCTGAGAGTCCCAAGAGAGAGGA 701  
DB 603 ACTCAATCGAAGAGAGCTGGAAGCTCCCTCTGTTTCTGAGAGTCCCAAGAGAGAGGA 662  
QY 702 GTCTTTCTGAGAGAGGCTTCCGAGAGTCCCTCACTTCAATCAGCTGAGATGAGA 761  
DB 663 GTCTTTCTGAGAGAGGCTTCCGAGAGTCCCTCACTTCAATCAGCTGAGATGAGA 722  
QY 762 GAGTGTCTCTTTGGATGATGCC 783  
DB 723 GAGTGTCTCTTTGGATGATGCC 744

RESULT 4  
AAL44090  
ID AAL44090 standard; cDNA; 737 BP.

AC AAL44090;  
XX  
XX  
DT 03-OCT-2002 (first entry)  
DE Mouse MARS short isoform protein coding sequence.

XX Mouse; gene; se; gene therapy; modulator of antigen receptor signaling;  
KM MARS; tumour suppressor gene; Src-like adaptor protein; SLAP;  
KM Myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;  
KW immunosuppression; myeloproliferative disorder; breast cancer.

OS Mus sp.  
XX

FF Key Location/Qualifiers  
FT CDS 1..633  
FT /tag= a  
FT /product= "Mouse MARS short isoform protein"

MO200242452-A2.

30-MAY-2002.

26-NOV-2001; 2001MO-CA01662.

27-NOV-2000; 2000CA-2324663.

(HOSP-) HOSPITAL FOR SICK CHILDREN.

Mogilade JC, Loreto MP.

WPI; 2002-566564/60.

P-PSDB; AAO15458.

PT New isolated modulator of antigen receptor signaling protein or its  
fragment, useful for treating malignant disorders such as myeloid  
malignancies, autoimmune disorders and myeloproliferative disorders  
Claim 9, Page 77, 110pp; English.

CC The invention comprises the amino acid and coding sequences of modulator  
of antigen receptor signaling (MARS) proteins. The MARS protein is a  
putative tumour suppressor gene and exhibits structural and sequence  
similarity to the Src-like adaptor protein (SLAP). The MARS DNA and  
protein sequences of the invention are useful for the treatment of  
myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune  
disorders, immunosuppression, myeloproliferative disorders and  
malignancies related to the de-regulation of tyrosine kinases (e.g.  
breast cancer). The present cDNA sequence encodes a mouse MARS protein.

Sequence 737 BP; 152 A; 219 C; 218 G; 148 T; 0 other;

Query Match 84.3%; Score 660.4; DB 24; Length 737;

Best Local Similarity 93.4%; Pred. No. 1.6e-164;  
Matches 732; Conservative 0; Mismatches 1; Indels 51; Gaps 2;

QY 1 ATGGGAAGTCTGCCAG 60  
DB 1 ATGGGAAGTCTGCCAG 60  
QY 61 CAAAGCCAGGAGACTGTGACCATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
DB 61 CAAAGCCAGGAGACTGTGACCATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
QY 121 GGCAGTTTCCCGCAGGTGGCCCGCCGAGCTGTGCTGAGACTCGGGAGCCATTAAC 180  
DB 121 GGCAGTTTCCCGCAGGTGGCCCGCCGAGCTGTGCTGAGACTCGGGAGCCATTAAC 180  
QY 181 ATGCTCTGAGAGATGAGAGCTGGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAT 240  
DB 181 ATGCTCTGAGAGATGAGAGCTGGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAT 240  
QY 241 AACATCCCAAGGCTCCAGTGGCCAAAGTCTCCATGAGTGGTGGCTGTATAGAGGCTTGA 300  
DB 241 AACATCCCAAGGCTCCAGTGGCCAAAGTCTCCATGAGTGGTGGCTGTATAGAGGCTTGA 300  
QY 301 AGGAG 360  
DB 301 AGGAG 360  
QY 361 CGGAG 420  
DB 361 CGGAG 420  
QY 421 TCTTGGAGACCGAGATCAGACTCAAGGATCACTGCTTGAAGAGAGAGAGAGAGAGATC 480  
DB 421 TCTTGGAGACCGAGATCAGACTCAAGGATCACTGCTTGAAGAGAGAGAGAGAGAGATC 480





XX Claim 1; SEQ ID No 10552; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,  
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX and gene mapping, and in recombinant production of (II). The  
XX polynucleotides are also used in diagnostics as expressed sequence tags  
XX for identifying expressed genes. (I) is useful in gene therapy techniques  
XX to restore normal activity of (II) or to treat disease states involving  
XX (II). (II) is useful for generating antibodies against it, detecting or  
XX quantitating a polypeptide in tissue, as molecular weight markers and as  
XX a food supplement. (II) and its binding partners are useful in medical  
XX imaging of sites expressing (II). (I) and (II) are useful for treating  
XX disorders involving aberrant protein expression or biological activity.  
XX The polypeptide and polynucleotide sequences have applications in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits to assess biodiversity  
XX and to produce other types of data and products dependent on DNA and  
XX amino acid sequences. A564197-A594564 represent novel human  
XX diagnostic coding sequences of the invention.  
XX Note: The sequence data for this patent did not appear in the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.

Sequence 603 BP; 124 A; 189 C; 164 G; 126 T; 0 other;

Query Match 51.3%; Score 402; DB 23; Length 603;  
Best Local Similarity 100.0%; Pred. No. 2.4e-96;  
Matches 402; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 382 GAGCTTACTCTCTGTGATCGGCTCAGCCGCTCATCTCTGGGACCGGATCAGAC 441  
Db 199 GAGCTTACTCTCTGTGATCGGCTCAGCCGCTCATCTCTGGGACCGGATCAGAC 258  
Qy 442 TAAGGATCCATCGCTTGAATGCTGCTGATCTCAACCGGCTCACTTCC 501  
Db 259 TAAGGATCCATCGCTTGAATGCTGCTGATCTCAACCGGCTCACTTCC 318  
Qy 502 TCATCTCAGGCGCTGTGAGACCATCTGAGCTGGGAGATGATCTGCTGCTACT 561  
Db 319 TCATCTCAGGCGCTGTGAGACCATCTGAGCTGGGAGATGATCTGCTGCTACT 378  
Qy 562 AAGGAGCCCTGTGCTGAGAGGGTGGCCGCTCCCTTGGCAAGGATATCCCTTACCT 621  
Db 379 AAGGAGCCCTGTGCTGAGAGGGTGGCCGCTCCCTTGGCAAGGATATCCCTTACCT 438  
Qy 622 GTGACTGTGAGAGGACCACTCACTGAGAAAGCTGAGACAGCTCCCTGTTTCT 681  
Db 439 GTGACTGTGAGAGGACCACTCACTGAGAAAGCTGAGACAGCTCCCTGTTTCT 498  
Qy 682 GAAGCTGACAGAGGAGAGTCTTCTCACTGAGAGGTCTCCGGAATCCCTCAGCTTC 741  
Db 499 GAAGCTGACAGAGGAGAGTCTTCTCACTGAGAGGTCTCCGGAATCCCTCAGCTTC 558  
Qy 742 TACATCAGCTGAATGAGAGGCTGCTCTTGGATGATGCC 783  
Db 559 TACATCAGCTGAATGAGAGGCTGCTCTTGGATGATGCC 600

RESULT 8

ID AAS70181 standard; cDNA; 211 BP.

XX AAS70181;

XX 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #5985.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001MO-US08631.

XX 31-MAR-2000; 2000US-0540217.

XX 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Dymanc RT, Liu C, Tang YT;

XX WPI: 2001-619362/73.

XX P-PDB; A560594.

XX New isolated polynucleotide and encoded polypeptides, useful in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits and to assess  
XX biodiversity.

XX Claim 1; SEQ ID No 5985; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,  
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX and gene mapping, and in recombinant production of (II). The  
XX polynucleotides are also used in diagnostics as expressed sequence tags  
XX for identifying expressed genes. (I) is useful in gene therapy techniques  
XX to restore normal activity of (II) or to treat disease states involving  
XX (II). (II) is useful for generating antibodies against it, detecting or  
XX quantitating a polypeptide in tissue, as molecular weight markers and as  
XX a food supplement. (II) and its binding partners are useful in medical  
XX imaging of sites expressing (II). (I) and (II) are useful for treating  
XX disorders involving aberrant protein expression or biological activity.  
XX The polypeptide and polynucleotide sequences have applications in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits to assess biodiversity  
XX and to produce other types of data and products dependent on DNA and  
XX amino acid sequences. A564197-A594564 represent novel human  
XX diagnostic coding sequences of the invention.  
XX Note: The sequence data for this patent did not appear in the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.

Sequence 211 BP; 50 A; 51 C; 72 G; 38 T; 0 other;

Query Match 24.6%; Score 192.8; DB 23; Length 211;  
Best Local Similarity 99.0%; Pred. No. 2.8e-41;  
Matches 194; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 187 TCTGAGATGAGACCTGAGACGAGTGTCTGAAAGCTCAGGACAGAGTAACTC 246

Db 16 TCTGAGATGAGACCTGAGACGAGTGTCTGAAAGCTCAGGACAGAGTAACTC 75

Qy 247 CCCAGCTCACTGCTCCAAAGTCTCCATGGTGTGATGAGAGGCTGAGACAGAG 306

Db 76 CCCAGCTCACTGCTCCAAAGTCTCCATGGTGTGATGAGAGGCTGAGACAGAG 135

Qy 307 AAAGAGAGAACTGCTGTTGTTACCTGGGAACCTGGAGGGGCTCCATCCGGAGG 366

Db 136 AAAGAGAGAACTGCTGTTGTTACCTGGGAACCTGGAGGGGCTCCATCCGGAGG 195

Qy 367 AGCCAGACCAAGAGAG 382

Db 196 AGCCAGACCAAGAGAG 211

RESULT 9

ID AAS02049 standard; cDNA; 2109 BP.







CC that alters the expression of at least one gene in Gs; (2) screening (M3) for an agent capable of modulating GCA or an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease using the gene expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by detecting the level of expression in a sample of the tissue of gene(s) from Gs, where the level of expression of the gene is indicative of inflammation; (4) treating (M5) an inflammation (especially chronic) or in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by contacting a tissue having inflammation with an agent that modulates the expression of gene(s) from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for modulating Gs; M3 is useful for screening an agent capable of modulating GCA preferably in an inflammation in a tissue; M4 is useful for detecting an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease (e.g. psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal reperfusion injury, ARDS, adult respiratory distress syndrome, inflammatory bowel disease, Crohn's disease, ulcerative colitis, periodontal disease); also bacterial infection, viral infection, parasitic infection, protozoal infection, fungal infection and M5 is useful for treating one of the above conditions. The present sequence represents a gene differentially expressed in granulocytes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [http://wipo.int/pub/published/pct\\_sequences](http://wipo.int/pub/published/pct_sequences).

**SQ** Sequence 2665 BP; 736 A; 617 C; 689 G; 623 T; 0 other;

Query Match	20.3%	Score 159;	DB 24;	Length 2665;
Best Local Similarity	54.4%;	Pred. No. 5e-32;		
Matches 355; Conservative	0;	Mismatches 280;	Indels 18;	Gaps 1

QY	13	CCAGCAGAGAAAAATCTGTGCACAGCCCAAGCTTAGTTCCTCTGTCTCAAGGCCAGAGGA	72
Db	24	CCAGGGAAAAAGAAAGAAATGGGAAACAGACTGAATCCACCCCTGTGGCCTTGCAGAGG	83
QY	73	CCTGTGACCATGGAACAGAGAGAGACGAGGCCACAGCCGTGAGCCCTTGGCAGTTTCCG	133
Db	84	CCCTGTCCCAACCCGAGGGAGCTGATAGGAGACTTCTTGCCGTATAGTACTACCG	143
QY	133	GCAAGTGGCCCGGCGAGCTGTCCGTGAGACTGGGGAGACCTTAGCAATCGTCTTGA	193
Db	144	TTCTCTGACATCAGCCCCCGATTTCCGCGAGGGGAGAACTGCGTGATTTCTGAT	203
QY	193	GATGAGACTGTGAGACGGTGTCTGTGAAAGTCTCAGGCGAGAGTAACTATCCCAAC	253
Db	204	GAGGGGGCTGTGGAAACATTTCTTCTTAGCACTGTGCGAGAGTACATCCCTGGA	263
QY	253	GTCCACCGTGGCAAAATCTCCCATAGGGGTCTGTATGAGGGCTGTAGCAGGAGAAAGCA	313
Db	264	ATATGTGTGGCAGAGTTTACATAGCTGTGTATTTGAAGGGCTGTGGCAAGACCAAGGCC	323
QY	313	GAGCAACTGCTGTTGTTACTCTGGGAACCTTGAAGGGGCTTCTCTATCCGAGAGACAG	373
Db	324	GAGGAGCTGTGCAGCTGTGCACACACAAAGTGGCTCTTATGATCAGAGAGGTGAG	383
QY	373	ACCGAGAGAGGCTCTTACTCTGTGTGACGTCCGCTCAGCGCCCTGCATCTTGGACCGG	433
Db	384	ACCGAGAAAGGTTTTACTTCACTGTGCTGGTAGACAGAGCA-----G	443
QY	433	ATCAGACACTACAGGATCCACTGACCTTGAACATGCTGTGCTTACATCTCACCAGCGCTC	493
Db	426	GTAAAGCATTAACGCAATTTTCGTGTGCCAACACTGTACTCATATTTCCCGAGGGCTC	483
QY	493	ACCTTCCCTCACTCCAGGGCCCTGTGTGACATTACTGTGAGCTGTGGGATGACATCTGC	553
Db	486	ACCTTCCAGTCTGTGAGGACCTGTGTGAACCACTATTTCTGAGGTGCTGTAGTGTGCTGTGC	543

Qy 553 TGCCTACTACGAAGAGCCCTGTGTCTCTCAAGAGGCGCCGCTCCCTGTGCAAGATATA 61.2  
 |||||  
 Db 546 TGTGTGCTCAACAGCCCTGTGCTTACCAAAAGACGGCTGCCCCAGATATGAGGCGCTCC 60.0  
 |||||  
 Qy 613 CCCCTACTGTGACTGTGCAAGAGACACACCTCTACATGTAAGAAAGCTGACAG 66.5  
 |||||  
 Db 606 AACTTACTGTCTCACTTGGTGTAAGAAATCTGTGACTGTGAGAGAGAGCTGTCCAG 65.8  
 |||||

## RESULT 11

ID ABL65189 standard; DNA; 2665 BP.

AC ABL65189;

DT 15-MAY-2002 (first entry)  
 XX

Lung cancer related gene sequence SEQ ID NO:3526.

KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;  
stomach; lung; prostate; bladder; pancreas; testis; uterus; vagina;

KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma; KM

HCMS  
XX  
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PN  
W0200194629-7

XX  
PD 13-DEC-2001

30-MAY-2001 : 2001WO-TIS10838

YY 05-JUN-2000  
PR

PR 18-SEP-2000: 2000US-233133P

PR	18-SEP-2000;	2000US-233617P.
PR	20-SEP-2000;	2000US-234009P.
PR	20-SEP-2000;	2000US-234034P.
PR	20-SEP-2000;	2000US-234052P.
PR	22-SEP-2000;	2000US-234509P.
PR	22-SEP-2000;	2000US-234567P.
PR	25-SEP-2000;	2000US-234923P.
PR	25-SEP-2000;	2000US-234924P.
PR	25-SEP-2000;	2000US-235077P.
PR	25-SEP-2000;	2000US-235082P.
PR	25-SEP-2000;	2000US-235114P.
PR	25-SEP-2000;	2000US-235280P.
PR	26-SEP-2000;	2000US-235637P.
PR	26-SEP-2000;	2000US-235688P.
PR	27-SEP-2000;	2000US-235711P.
PR	27-SEP-2000;	2000US-235720P.
PR	27-SEP-2000;	2000US-235840P.
PR	27-SEP-2000;	2000US-235863P.
PR	28-SEP-2000;	2000US-236028P.
PR	28-SEP-2000;	2000US-236032P.
PR	28-SEP-2000;	2000US-236033P.
PR	28-SEP-2000;	2000US-236034P.
PR	28-SEP-2000;	2000US-236109P.
PR	28-SEP-2000;	2000US-236111P.
PR	29-SEP-2000;	2000US-236442P.
PR	29-SEP-2000;	2000US-236891P.
PR	02-OCT-2000;	2000US-237122P.
PR	02-OCT-2000;	2000US-237133P.
PR	02-OCT-2000;	2000US-237178P.
PR	02-OCT-2000;	2000US-237249P.
PR	02-OCT-2000;	2000US-237295P.
PR	02-OCT-2000;	2000US-237316P.
PR	03-OCT-2000;	2000US-237425P.
PR	03-OCT-2000;	2000US-237588P.
PR	03-OCT-2000;	2000US-237644P.
PR	03-OCT-2000;	2000US-237666P.
PR	03-OCT-2000;	2000US-237688P.
PR	01-NOV-2000;	2000US-244867P.



Query Match 18.1%; Score 141.8; DB 22; Length 432;  
Best Local Similarity 95.4%; Pred. No. 1e-27;  
Matches 146; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 515 TGGTGGACCATTAAGCTGAGCTGGCGGATGACATCTGCTCAAGAGCCCTGTG 574  
DB 253 TGGAGTCTCTTCTCCAGAGCTGGCGGATGACATCTGCTCAAGAGCCCTGTG 312  
QY 575 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 634  
DB 313 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 372  
QY 635 GGACACCACTCACTGAGAAAGAGCTGACAGCT 667  
DB 373 GGACACCACTCACTGAGAAAGAGCTGACAGCT 405

## RESULT 13

ABA54580  
ID ABA54580 standard; DNA; 432 BP.

XX ABA54580;

DT 01-FEB-2002 (first entry)

DE Human foetal liver single exon nucleic acid probe #2885.

KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

OS Homo sapiens.

PN MO200157277-A2.

PD 09-AUG-2001.

PR 30-JAN-2001; 2001MO-US00669.

XX 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0234659.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2001-483447/52.

PT Human genome-derived single exon nucleic acid probes useful for

PS analyzing gene expression in human fetal liver -

XX Claim 1; SEQ ID NO 2885; 639bp + sequence listing; English.

CC The invention relates to a single exon nucleic acid probe for

CC measuring human gene expression in a sample derived from human foetal

CC liver. The single exon nucleic acid probes may be used for predicting,

CC measuring and displaying gene expression in samples derived from human

CC fetal liver. The present sequence is a single exon nucleic acid

CC probe of the invention.

CC Note: The sequence data for this patent did not form part of the

CC printed specification, but was obtained in electronic format directly

CC from WIPO at ftp.wipo.int/pub/published\_pcl\_sequences.

DB 253 TGGAGTCTCTTCTCCAGAGCTGGCGGATGACATCTGCTCAAGAGCCCTGTG 312

QY 575 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 634

DB 313 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 372

QY 635 GGACACCACTCACTGAGAAAGAGCTGACAGCT 667

DB 373 GGACACCACTCACTGAGAAAGAGCTGACAGCT 405

## RESULT 14

ABA24363  
ID ABA24363 standard; DNA; 432 BP.

XX ABA24363;

DT 23-JAN-2002 (first entry)

DE Probe #2829 for gene expression analysis in human heart cell sample.

KW Human; gene expression; heart; microarray; vascular system; probe;

KW cardiovascular disease; hypertension; cardiac arrhythmia;

OS Homo sapiens.

PN MO200157274-A2.

PD 09-AUG-2001.

PR 30-JAN-2001; 2001MO-US00666.

XX 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0234659.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2001-488899/53.

PT Single exon nucleic acid probes for analyzing gene expression in human

PS hearts -

XX Claim 1; SEQ ID NO 2829; 530bp; English.

CC The present invention relates to single exon nucleic acid probes for

CC measuring human gene expression in a sample derived from human heart. The

CC present sequence is one such probe. The probes may be used for

CC predicting, measuring and displaying gene expression in samples derived

CC from the human heart via microarrays. By measuring gene expression, the

CC probes are useful for predicting, diagnosing, grading, staging,

CC monitoring and prognosing diseases of the human heart and vascular system

CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and

CC congenital heart disease.

CC Note: The sequence data for this patent did not form part of the printed

Query Match 18.1%; Score 141.8; DB 22; Length 432;  
Best Local Similarity 95.4%; Pred. No. 1e-27;  
Matches 146; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 515 TGGTGGACCATTAAGCTGAGCTGGCGGATGACATCTGCTCAAGAGCCCTGTG 574  
DB 253 TGGAGTCTCTTCTCCAGAGCTGGCGGATGACATCTGCTCAAGAGCCCTGTG 312  
QY 575 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 634  
DB 313 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 372  
QY 635 GGACACCACTCACTGAGAAAGAGCTGACAGCT 667  
DB 373 GGACACCACTCACTGAGAAAGAGCTGACAGCT 405

## RESULT 13

ABA54580  
ID ABA54580 standard; DNA; 432 BP.

XX ABA54580;

DT 01-FEB-2002 (first entry)

DE Human foetal liver single exon nucleic acid probe #2885.

KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

OS Homo sapiens.

PN MO200157277-A2.

PD 09-AUG-2001.

PR 30-JAN-2001; 2001MO-US00669.

XX 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0234659.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2001-483447/52.

PT Human genome-derived single exon nucleic acid probes useful for

PS analyzing gene expression in human fetal liver -

XX Claim 1; SEQ ID NO 2885; 639bp + sequence listing; English.

CC The invention relates to a single exon nucleic acid probe for

CC measuring human gene expression in a sample derived from human foetal

CC liver. The single exon nucleic acid probes may be used for predicting,

CC measuring and displaying gene expression in samples derived from human

CC fetal liver. The present sequence is a single exon nucleic acid

CC probe of the invention.

CC Note: The sequence data for this patent did not form part of the

CC printed specification, but was obtained in electronic format directly

CC from WIPO at ftp.wipo.int/pub/published\_pcl\_sequences.

DB 253 TGGAGTCTCTTCTCCAGAGCTGGCGGATGACATCTGCTCAAGAGCCCTGTG 312

QY 575 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 634

DB 313 TCCGTGAGAGGGCTGGCCCGCTCCCTGGCAGAGATATACCCCTACTGAGCTGTGAGA 372

QY 635 GGACACCACTCACTGAGAAAGAGCTGACAGCT 667

DB 373 GGACACCACTCACTGAGAAAGAGCTGACAGCT 405

## RESULT 14

ABA24363  
ID ABA24363 standard; DNA; 432 BP.

XX ABA24363;

DT 23-JAN-2002 (first entry)

DE Probe #2829 for gene expression analysis in human heart cell sample.

KW Human; gene expression; heart; microarray; vascular system; probe;

KW cardiovascular disease; hypertension; cardiac arrhythmia;

OS Homo sapiens.

PN MO200157274-A2.

PD 09-AUG-2001.

PR 30-JAN-2001; 2001MO-US00666.

XX 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0234659.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2001-488899/53.

PT Single exon nucleic acid probes for analyzing gene expression in human

PS hearts -

XX Claim 1; SEQ ID NO 2829; 530bp; English.

CC The present invention relates to single exon nucleic acid probes for

CC measuring human gene expression in a sample derived from human heart. The

CC present sequence is one such probe. The probes may be used for

CC predicting, measuring and displaying gene expression in samples derived

CC from the human heart via microarrays. By measuring gene expression, the

CC probes are useful for predicting, diagnosing, grading, staging,

CC monitoring and prognosing diseases of the human heart and vascular system

CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and

CC congenital heart disease.

CC Note: The sequence data for this patent did not form part of the printed

Db 253 TGGAGGTCCTCTCTCAGAGCTGGCGGATGACATCTGTGCTACTCAAGAGCCCTGTG 312  
 Qy 575 TCCCTGACAGAGGCTGGCCGCTCCCTGGGAGATATACCCCTACTGCTGACTGTGAGA 634  
 Db 313 TCCCTGACAGAGGCTGGCCGCTCCCTGGGAGATATACCCCTACTGCTGACTGTGAGA 372  
 Qy 635 GGACACCACTCACTGCAAGAGCTGACAGCT 667  
 Db 373 GGACACCACTCACTGCAAGAGCTGACAGCT 405

## RESULT 15

AAK02872  
 ID AAK02872 standard; DNA; 432 BP.

XX AAK02872;

DT 05-NOV-2001 (first entry)

XX Human brain expressed single exon probe SEQ ID NO: 2863.

XX Human; brain expressed exon; gene expression analysis; probe;

KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;

KW epilepsy; cancer; ss.

XX Homo sapiens.

PN MO200157275-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00667.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483446/52.

XX Single exon nucleic acid probes for analyzing gene expression in human

XX brains -

XX Example 4; SEQ ID NO: 2863; 650pp + Sequence Listing; English.

XX The present invention provides a number of single exon nucleic acid

XX probes which are derived from genomic sequences expressed in the human

XX brain. They can be used to measure gene expression in brain cell samples,

XX which may enable the diagnosis and improved treatment of nervous system

XX diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,

XX epilepsy and cancers. The present sequence is one of the probes of the

XX invention.

XX Sequence 432 BP; 109 A; 115 C; 111 G; 97 T; 0 other;

XX Query Match 18.1%; Score 141.8; DB 22; Length 432;

XX Best Local Similarity 95.4%; Pred. No. 1e-27; 7; Indels 0; Gaps 0;

Db 313 TCCCTGACAGAGGCTGGCCGCTCCCTGGGAGATATACCCCTACTGCTGACTGTGAGA 372  
 Qy 635 GGACACCACTCACTGCAAGAGCTGACAGCT 667  
 Db 373 GGACACCACTCACTGCAAGAGCTGACAGCT 405

Search completed: March 30, 2003, 00:48:25  
 Job time: 226.784 secs

Qy 515 TGGTGACCACTTACTCTGAGCTGGCGATGACATCTGCTCCTACTCAAGAGCCCTGTG 574  
 Db 253 TGGAGGTCCTCTCTCAGAGCTGGCGGATGACATCTGTGCTACTCAAGAGCCCTGTG 312  
 Qy 575 TCCCTGACAGAGGCTGGCCGCTCCCTGGGAGATATACCCCTACTGCTGACTGTGAGA 634